



Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				<b>Appl. No. &amp; Conf. No.</b>	10/787,058
				<b>Filing Date</b>	2/24/2004
				<b>First Named Inventor</b>	Spilker, Jr.
				<b>Group Art Unit</b>	
				<b>Examiner Name</b>	
<b>Sheet</b>	1	<b>of</b>	2	<b>Attorney Docket Number</b>	RSM054001

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
DP	A	5,157,686		Omura et al.	10-20-1992	
	B	5,166,952		Omura et al.	11-24-1992	
	C	5,920,284		Victor	07-06-1999	
	D	6,078,284		Levanon	06-20-2000	
	E	6,107,959		Levanon	08-22-2000	
	F	6,137,441		Dai et al.	10-24-2000	
	G	6,317,500	B1	Murphy	11-13-2001	
	H	6,373,432	B1	Rabinowitz et al.	04-16-2002	
	I	6,374,177	B1	Lee et al.	04-16-2002	
	J	4,555,707		Connelly	11-26-1985	
	K	5,045,861		Duffett-Smith	09-03-1991	
	L	5,481,316		Patel	01-02-1996	
	M	5,510,801		Engelbrecht et al.	04-23-1996	
	N	6,094,168		Duffett-Smith et al.	07-25-2000	
	O	5,774,829		Cisneros et al.	06-30-1998	
	P	5,952,958		Speasl et al.	09-14-1999	
	Q	4,894,662		Counselman	01-16-1990	
	R	5,398,034		Spilker, Jr	03-14-1995	
	S	5,323,322		Mueller et al.	06-21-1994	
DP	T	5,504,492		Class et al.	04-02-1996	
	U	5,593,311		Davis et al.	09-14-1999	
DP	V	10/036,700		Panasik et al.	12-31-2001	
DP	W	4,652,884		Starker	03-24-1987	
DP	X	6,433,740		Gilhausen	08-2002	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
DP	Y	GB	2 222 922	A	Spectronics Micro System	03-21-1990		
DP	Z	GB	2 254 508	A	Mitchison, et al.	10-07-1992		

<b>Examiner Signature</b>		<b>Date Considered</b>	2/3/05
---------------------------	--	------------------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>†</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Best Available Copy



Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>Substitute for form 1449B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		<b>Appl. No. &amp; Conf. No.</b>	10/787,058		
		<b>Filing Date</b>	2/24/2004		
		<b>First Named Inventor</b>	Spilker, Jr.		
		<b>Group Art Unit</b>	2641		
		<b>Examiner Name</b>			
<b>Sheet</b>	2	<b>of</b>	2	<b>Attorney Docket Number</b>	RSM054001

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
DP	AA	PARKINSON, B.W., et al., "Autonomous GPS Integrity Monitoring Using the Pseudorange Residual," <i>Journal of the Institute of Navigation</i> (1988), Vol. 35, No. 2, pages 255-274.	
	AB	RABINOWITZ, M., "A Differential Carrier Phase Navigation System Combining GPS with Low Earth Orbit Satellites for Rapid Resolution of Integer Cycle Ambiguities," <i>PhD Thesis for Department of Electrical Engineering, Stanford University</i> (Dec. 2000), pages 59-73.	
	AC	SPIPKER, JR., J.J., "Fundamentals of Signal Tracking Theory," <i>Global Positioning System: Theory and Applications</i> (1994), Vol. 1, Chapter 7, pages 245-327.	
	AD	VAN DIERENDOCK, A.J., "GPS Receivers," <i>Global Positioning System: Theory and Applications</i> (1995), Vol. 1, Chapter 8, pages 329-407.	
	AE	LI, X., et al., "Indoor Geolocation Using OFDM Signals in HIPERLAN/2 Wireless LANS," 11 <sup>th</sup> IEEE International Symposium on Personal Indoor and Mobile Radio Communications, PIMRC 2000, Proceedings (Cat. No. 00TH8525), Proceedings of 11 <sup>th</sup> International Symposium on Personal Indoor and Mobile Radio Communication, London, UK, Sept. 18-21, pp.1449-1453, Vol. 2, XPO10520871, 2000, Piscataway, NJ, USA, IEEE, USA, ISBN: 9-7803-6463-5, Chapter I and III	
	AF	RABINOWITZ, M., et al., "Positioning Using the ATSC Digital Television Signal," Rosum whitepaper, Online! 2001, XP002235053, Retrieved from the Internet on 03-13-2003 at URL <a href="http://www.rosun.com/whitepaper">www.rosun.com/whitepaper</a> 8-7-01.pdf	
	AG	EP Abstract/Zusammenfassung/Abrege, 02102666.1	
DP	AH	JP Abstract/ Vol. 007, No. 241 (P-232), 10-26-1983 & JP58 129277 A (Nihon Musen KK) 08-02-1983	

<b>Examiner Signature</b>		<b>Date Considered</b>	2/3/05
---------------------------	--	------------------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231